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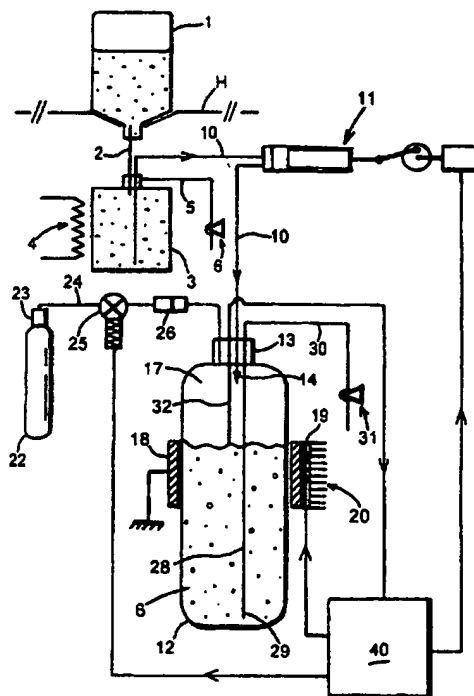
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(54) Abstract Title

Gassed liquid dispensers

(57) Water supplied from a bottle 1 is pre-chilled in a reservoir 3. A two-part water pump 11 transfers water under pressure through a jet nozzle 14 into an oxygen space 17 in a PET pressure vessel 12, which entrains oxygen into the water. The pressure vessel is received in a conductive holder 18 and is cooled by a peltier element 19 provided with cooling fins 20. The holder 18 forms a capacitive level sensor with a probe 32 inside the vessel, which starts the pump 11 when oxygenated water is drawn off via a draw tube 28 and discharge valve 31. When the water level in the oxygenating vessel is restored a solenoid valve 25 opens to restore the oxygen pressure in the vessel. For hygiene purposes the pumping body can be removed from the pump motor and replaced together with the reservoir 3 and oxygenating vessel 12 along with the associated tubing.



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Oxygenating water cooler

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Abstract

Water supplied from a bottle 1 is pre-chilled in a reservoir 3. A two-pad water pump 11 transfers water under pressure through a jet nozzle 14 into an oxygen space 17 in a PET pressure vessel 12, which entrains oxygen into the water. The pressure vessel is received in a conductive holder 18 and is cooled by a peltier element 19 provided with cooling fins 20. The holder 18 forms a capacitive level sensor with a probe 32 inside the vessel, which starts the pump 11 when oxygenated water is drawn off via a draw tube 28 and discharge valve 31. When the water level in the oxygenating vessel is restored a solenoid valve 25 opens to restore the oxygen pressure in the vessel. For hygiene purposes the pumping body can be removed from the pump motor and replaced together with the reservoir 3 and oxygenating vessel 12 along with the associated tubing.

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